AMENDMENTS TO THE CLAIMS

- 1. (currently amended) A reactive dye compound comprising:
 - (a) at least one chromophore moiety
 - (b) at least one SO₂C₂H₄ group which is attached to the chromophore moiety either directly via the sulphur atom of the SO₂C₂H₄ group or via a linking group L;

wherein at least one SO₂C₂H₄ group is substituted on its terminal carbon atom with at least one Y group wherein Y is -A(CO)R* wherein A is O or S and wherein R* is an organic residue which contains at least one nucleophilic group; or a salt thereof. [and salts thereof.]

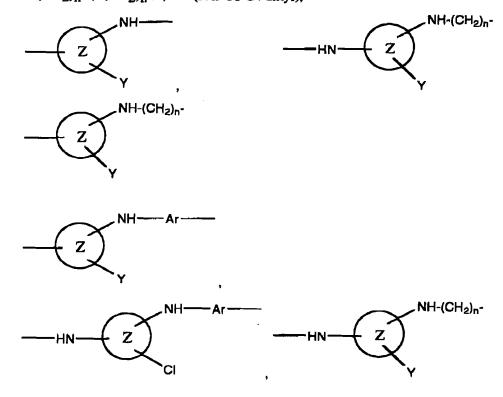
- (currently amended) A reactive dye compound according to Claim 1 wherein R* is 2. selected from the group consisting of (CH2)nSH, (CH2)nNH2, CH(CH3)OH, CH(CH₃)O(CO)CH(CH₃)OH. derivatives of a polyester of $CH(OH)(CH_2COOH)_2$, $CH_2(OH)(CO_2H)CH_2COOH$, C(OH)(H)CH2COOH, CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH. $(CH_2)nNH[R^1,]R_L$ $\text{CH}_2\text{N}[\text{R}^1\text{R}^2,]\underline{\text{R}_1}\underline{\text{R}_2}, \quad \text{CH}_2\text{N}\text{H}\text{N}\text{H}_2, \quad \text{CH}_2\text{N}\text{H}\text{O}\text{H}, \quad \text{CH}_2\text{SMe}, \quad \text{CH}\text{N}\text{H}_2(\text{CH}_2)_n(\text{COOH}),$ CHNH2CH2SMe, CHNH2CH2SSCH2CHNH2COOH, CHNH2CH2SO3H, C6H4OH, C_6H_4COOH , $C_6H_4NH_2$, C_6H_4N , $(CH_2)_nC_6H_4N$, $CH(R\#)NH_2$, $(CH_2)_n-SSO_3$, $(CH_2)_n$ -S-S- $(CH_2)_n$, peptides [and] or polypeptides,[;] wherein R_1 and R_2 is independently selected from C1-C4 alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain.
- (previously amended) A reactive dye according to claim 2 wherein R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, C₆H₄N. CH(R#)NH₂, CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, C(OH)(CH₂COOH)₂, CH₂C(OH)(COOH)CH₂COOH, C(H)(CH₃)OH, C(H)(OH)CH₂COOH, CH₂C(H)(OH)COOH, CH₂C(H)(OH)COOH, C6H₄OH and C₆H₄NH₂.
- (previously amended) A reactive dye compound according to claim 3 wherein R* is C(OH)(CH2COOH)2 or CH2C(OH)(COOH)CH2COOH.
- 5. (previously amended) A reactive dye compound according to claim 1 wherein A is O.

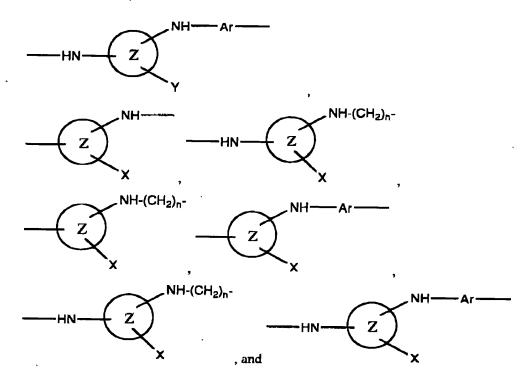
6. (currently amended) A reactive dye compound having the formula (I):

wherein: D is a chromophore group;

r is 0 or 1;

L is a linking group selected from the group consisting of NH, $(CH_2)_n$, N- $(CH_2)_n$ N, - $(CH_2)_n$ -N, NR (R is C1-C4 alkyl),





wherein Ar is an aryl group, Y is halogen or O(C=O)R*, n is an integer of from 1 to 4, Z is a nitrogen-containing heterocycle, X is selected from the group consisting of thio-derivatives, halogens, amines, alkoxy groups, carboxylic acid groups, CN, N3, and quaternized nitrogen derivatives (Q+);

A is O or S.

R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂. CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, derivatives of a polyester of citric CH(OH)(CH2COOH)2. CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH2COOH, CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH, $(CH_2)nNH[R^1,]R_1$ $CH_2N[R^1R^2,]\underline{R_1R_2}$, CH_2NHNH_2 , CH_2NHOH , CH_2SMe , $CHNH_2(CH_2)_n(COOH)$, CHNH2CH2SMe, CHNH2CH2SSCH2CHNH2COOH, CHNH2CH2SO3H, C6H4OH, C₆H₄COOH, C₆H₄NH₂, C₆H₄N, (CH₂)_nC₆H₄N, CH(R#)NH₂, (CH₂)_n-SSO₃. (CH₂)_n-S-S-(CH₂)_n, peptide [and]or polypeptide [derivatives linked to the vinylsulphone group via their terminal carboxylic acid group;] wherein R1 and R2 is independently selected from C1-C4 alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain;

[and salts thereof.] or a salt thereof.

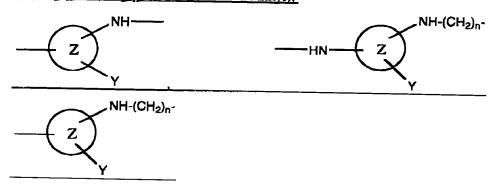
- 7. (previously amended) A reactive dye according to Claim 6 wherein R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, C₆H₄N, CH(R#)NH₂, CH(CH₃)OH, CH(CH₃)O(CO)CH(CH₃)OH, C(OH)(CH₂COOH)₂, CH₂C(OH)(COOH)CH₂COOH, C(H)(CH₃)OH, C(H)(OH)CH₂COOH, CH₂C(H)(OH)COOH, CH₂C(H)(OH)COOH, C₆H₄OH and C₆H₄NH₂.
- 8. (currently amended) A reactive dye according to claim 6 wherein R* is selected from the group consisting of C(OH)(CH₂COOH)₂, CH₂C(OH)(COOH)CH₂COOH and derivatives of a polyester of citric acid [polymer].
- 9. (previously amended) A reactive dye compound according to claim 6 wherein A is O.
- 10. (currently amended) A reactive dye compound having the structure:

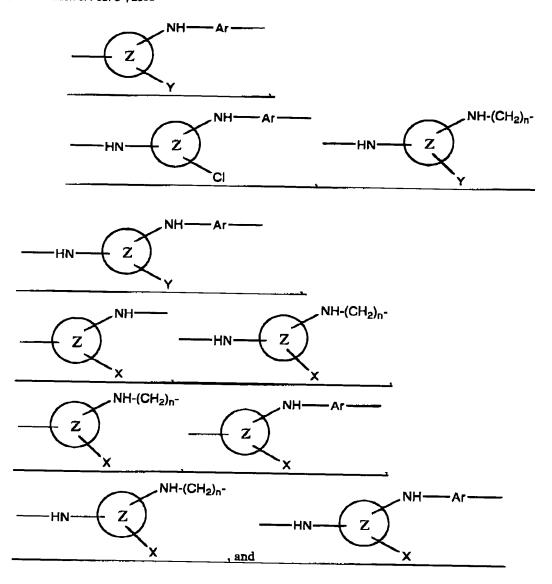
wherein [D, L, r are as defined above.] D is a chromophore group;

r is 0 or 1;

L is a linking group selected from the group consisting of NH, (CH₂)_n.

N-(CH₂)_nN, -(CH₂)_n-N, NR (R is C1-C4 alkyl),





wherein Ar is an aryl group, Y is halogen or O(C=O)R*, n is an integer of from 1 to 4, Z is a nitrogen-containing heterocycle, X is selected from the group consisting of thio-derivatives, halogens, amines, alkoxy groups, carboxylic acid groups, CN, N3, and quaternized nitrogen derivatives (O+);

A is O or S,

R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, CH(CH₃)OH, CH(CH₃)OH, derivatives of a polyester of citric acid, CH(OH)(CH₂COOH)₂, CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH₂COOH,

CH₂C(H)(OH)COOH, C(OH)(H)C(OH)(H)COOH, (CH₂)nNHR₁, CH₂NR₁R₂, CH₂NHNH₂, CH₂NHOH, CH₂SMe, CHNH₂(CH₂)_n(COOH), CHNH₂CH₂SMe, CHNH₂CH₂SSCH₂CHNH₂COOH, CHNH₂CH₂SO₃H, C₆H₄OH, C₆H₄COOH, CHNH₂CH₂SO₃H, C₆H₄OH, C₆H₄OH, CH(R#)NH₂, (CH₂)_n-SSO₃, (CH₂)_n-S-S-(CH₂)_n, peptide or polypeptide, wherein R₁ and R₂ is independently selected from C₁-C₄ alkyl, wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain;

or a salt thereof.

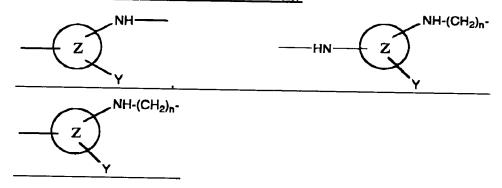
11. A reactive dye compound having the structure:

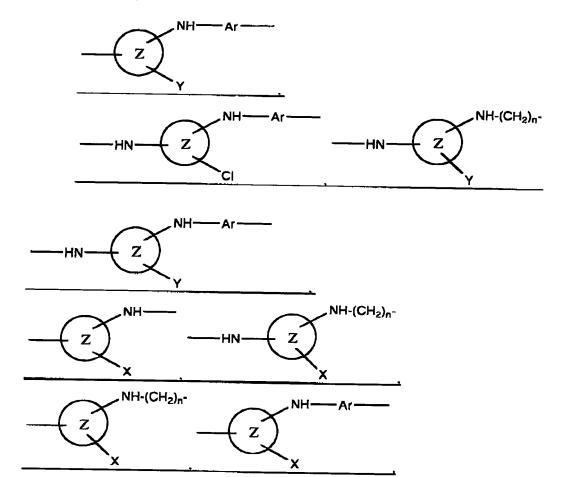
(Ib)

wherein [D, L and r are as defined above.] D is a chromophore group;

r is 0 or 1:

L is a linking group selected from the group consisting of NH, (CH₂)_n, N-(CH₂)_nN, -(CH₂)_n-N, NR (R is C1-C4 alkyl),





wherein Ar is an aryl group, Y is halogen or O(C=O)R*, n is an integer of from 1 to 4, Z is a nitrogen-containing heterocycle, X is selected from the group consisting of thio-derivatives, halogens, amines, alkoxy groups, carboxylic acid groups, CN, N3, and quaternized nitrogen derivatives (O+);

and

NH-(CH₂)_n-

Z

<u>A is O or S,</u>

R* is selected from the group consisting of (CH₂)_nSH, (CH₂)_nNH₂, CH(CH₃)OH, CH(CH₃)OH, derivatives of a polyester of citric acid, CH(OH)(CH₂COOH)₂, CH₂(OH)(CO₂H)CH₂COOH, C(OH)(H)CH₂COOH,

> CH2C(H)(OH)COOH. C(OH)(H)C(OH)(H)COOH, $(CH_2)nNHR_1$, CH2NHNH2, CH2NHOH, CH2SMe, CHNH2(CH2)n(COOH), CHNH2CH2SMe, CHNH2CH2SSCH2CHNH2COOH, CHNH2CH2SO3H, C6H4OH, <u>C6H4NH2, C6H4N, (CH2)nC6H4N, CH(R#)NH2, (CH2)n-SSO3, (CH2)n-S-S-(CH2)n</u> peptide or polypeptide, wherein R1 and R2 is independently selected from C1-C4 alkyl. wherein n is an integer in the range of 1 to 4 wherein within the same molecule n is not necessarily the same integer and wherein R# corresponds to an amino acid sidechain;

or a salt thereof.

- 12. (previously amended) Method of using a compound according to claim 1 for dyeing cellulosic substrates.
- 13. (previously amended) Method of using a compound according to claim 1 for dyeing wool.
- 14. (previously amended) Method of using a compound according to claim I for dyeing polyamide substrates.
- 15. (previously amended) Method of using a compound according to claim 1 for dyeing silk.
- 16. (previously amended) Method of using a compound according to claim 1 for dyeing keratin.
- (previously amended) Method of using a compound according to claim 1 for dyeing 17. leather.
- 18. (previously amended) Process for the preparation of a compound according to claim 1 comprising the steps of reacting a first starting material with a second starting material, the first starting material comprising at least one chromophore, at least one SO2C2H4 which is attached to the chromophore group either directly via the sulphur atom of the SO₂C₂H₄ group or via a linking group L, the second starting material comprising an oxyor thio-carbonyl group.
- (currently amended) Process according to Claim 18 wherein the process is carried out at a 19. pH of from about 2 to about 8.

- (previously amended) Process according to Claim 18 or 19 wherein the second starting material is added to the first starting material slowly.
- 21. (previously amended) Product obtainable by a process according to claim 18.
- 22. (previously amended) A dye composition comprising the compound of claim 1.
- 23. (original) A dye composition according to Claim 22 wherein the composition is in the form of a solid mixture and further comprises an acid buffer.
- 24. (original) A dye composition according to Claim 22 wherein the composition is in the form of a liquid and further comprises water and an acid buffer.
- 25. (original) A dye composition according to Claim 22 wherein the composition is in the form of a paste and further comprises water, thickening agent and an acid buffer.
- 26. (previously amended) A dye composition according to claim 22 wherein the pH is from about 2 to about 3.